

**TEXTURE GENERATING APPARATUS
FOR DYNAMIC
INTERFERENCE CHECKING**

5 ABSTRACT OF THE DISCLOSURE

The present invention provides an apparatus, system, and method for performing interference checking of the design in a project, component or part thereof to a designer, engineer, team of designers, or a team of

10 engineers. In one embodiment, the present invention is comprised of a texture generating apparatus adapted to provide proximity analysis of objects in a design by dynamically generating a texture visually indicative of the spatial relationship between the modeled objects. In this embodiment, the texture generating apparatus is further comprised of a processing element.

15 The processing element is adapted to perform the calculations of the interference check. The texture generating apparatus is further comprising a texture generating element. The texture generating element is adapted to provide the texture on which the interference check is based. The texture generating apparatus is further comprised a rendering element. The

20 rendering element is adapted to provide the rendering of the texture onto the object in a design.